



# THE UNIVERSITY OF KANSAS SPACE TECHNOLOGY LABORATORIES

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March 7, 1974

Mr. Timothy T. White, Code TD4  
National Aeronautics and Space Administration  
Lyndon B. Johnson Space Center  
Houston, Texas 77058

RE: Monthly Progress Report for November 1973,  
Contract NAS9-13331

Dear Mr. White:

The University of Kansas Center for Research, Inc. reports the following  
work performed during the period 1 November 1973 to 30 November 1973.

## 1.0 CONTINUING STUDIES

### 1.1 (Task 2.1.1.2, 2.1.3.1, 2.1.3.2) Development of Catalogue for Backscatter Measurements Performed to Date.

This report is under final editing and will be completed next month.

### 1.2 (Task 2.1.1.2, 2.1.3.1, 2.1.3.2) Development of Catalogue for Radiometer Temperature Measurements Performed to Date.

Reports received of Russian programs in this area have required a  
reevaluation of the catalogue assembled so far. The Russian efforts will be in-  
cluded in this catalogue.

### 1.3 (Task 2.1.3.3) Study of Effects of Atmosphere Upon S193 Rad/Scat Measurements.

Analysis is still under way in this study.

### 1.4 (Task 2.1.1.5) Ground Truth Collection.

More S190 photographs and tabulations were received and logged into the  
Ground Truth File. We are awaiting S193 data to start preparing the ground  
truth.

A tape containing weather information reports by 535 weather reporting  
stations was procured from the National Severe Storm Forecast Center in  
Kansas City. They have provided the weather information for the days requested  
in their standard coded form and supplied an index of weather stations, as well  
as the latitude and longitude of each station. This will serve as a meteorology  
file. So far, data for only five days in SL2 has been requested and received.  
We are still awaiting information from NASA listing the passes and times of S193  
operation for this project.

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(E74-10433) [MICROWAVE  
RADIOMETER-SCATTEROMETER  
MEASUREMENTS]  
Monthly Progress Report, 1-30 Nov. 1973  
(Kansas Univ. Center for Research, Inc.)  
2 p HC \$4.00

### 1.5 (Task 2.1.1.5) Data Decommutation and Analysis

No tapes have been received on this project for S193 Rad/Scat. Five 7-track tapes containing Altimeter data were received. The decommutation programs generated at The University of Kansas anticipated receiving 9-track tapes. The packing of data on computer compatible magnetic tape makes it very inefficient and cumbersome to decommutate 7-track tapes. This information was relayed back to you. We are awaiting 9-track tapes with the same information.

The simulation program has been optimized with regard to its input parameters. It has recently been learned that some of the parameters printed in SKYBET are estimates subject to rather large tolerances.

### 2.0 REPORTS COMPLETED

There were no reports completed this month.

### 3.0 SPECIAL ANALYSES

No special analyses were requested of The University of Kansas.

### 4.0 DATA RECEIVED

The University of Kansas is still awaiting a formal list of tracks and passes run for this project during SL3. The only S193 data received has been on another project. This data is a quick-look tabulation that is currently being used for analyses by this project.

Sincerely,



Arun Sobti  
Project Engineer  
Remote Sensing Laboratory

AS/rmm

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